A.N.A.R.T.S. News Bulletin 1340 20 Mar 2005.

Cols Column

Cooke and Wheatstone. Part Eight.

Cooke regarded the needle telegraph in its different forms to be the best form of electrical communication. On the other hand, Wheatstone had in mind a new kind of telegraph that did not need a code that the operator had to decode, needing less skill.

Wheatstone spent a considerable time and attention to developing an 'Escapement' device. It had electro-magnets that were activated by 'Many turns of fine wire', that were prescribed by Henry, and it operated quite well over shorter distances. There were several versions of the 'ABC' telegraphs, so called by Wheatstone.

In one of the ABC telegraphs a paper disc was turned by a clockwork arrangement, and the movement of the clockwork was controlled by an electromagnet. The magnet in turn was activated by current pulses from the line.

At the transmit end of the system, these current pulses were made by making and breaking a battery circuit by dial device called the 'ABC Dial Sender'. This device, patented by Wheatstone in 1839 closely resembles the 20th Century telephone dial. A disc attached to a spindle was engraved around its edge with the letters of the alphabet, except for letters Q, X and U. The disc was fitted with pieces of metal rather like spokes on a bicycle wheel, which were fitted between each character. They protruded from the centre of the disc to about halfway to the edge and were used as finger holes to dial a letter to be transmitted. The disc had a fixed 'Stop' and the characted to be sent was 'Dialed' by the operator. Contacts behind the disc were made and broken for each character as the disc moved to the 'Stop' precisely the same as a dial telephone.

The pulse of current fed to line activated the clockwork -powered the disc on the receive telegraph and the receive operator could read the character as the disc stopped at a particular letter.

In the dial telephone (there are some still around) the ABC receiver was replaced by the 'Uniselector'. It is a more sophisticated device than Wheatstones, but it proves that there is nothing new in this World.

There were more reliable ABC telegraphs as time passed, but the Railways in Britain kept to their Needle telegraphs, simply because they had a team of trained operators. but Wheatstone was able to sell many to private companies using them on private circuits.

Diagrams of the ABC telegraphs can be found on my web site this week.

More next week, 73's Col VK2CTD

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IPS Weekly Solar and Geophysical Report 11/17 Mar

SUMMARY

Date	11	12	13	14	15	16	17
10cm flux	105	110	114	112	108	105	101
AFr index	3	2	4	12	3	4	(12 est)
Aaus indeX	6	2	4	14	3	6	(6 est)
T index	32	52	59	74	65	74	78

Solar flare activity was low on 15th very low over the rest of the period.

Geomagnetic activity observed for the Australian Region was quiet on 12/13 15/16th quiet to unsettled on 11th and 17th and mostly quiet to unsettled with isolated minor storm periods on 14th.

Southern Australian Ionospheric F2 critical frequencies was near predicted on 11th near predicted to 20 percent enhanced on 12th enhanced 15 to 25 percent on 13th 15th and 16th enhanced 30 to 45 percent on 14th and enhanced 20 to 30 percent on 17th.

Forecast for 18/24th Mar

Solar activity should be low.

Geomagnetic activity should be mostly quiet, possibly unsettled on 18th. There is a recurrent pattern of active conditions expected 24/27th.

Frequencies should be enhanced 15 percent with good HF conditions. Frequencies are expected to be depressed 15 percent on 25th after local dawn in the southern Australian/NZ region. No Short Wave fadeouts are expected this week.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

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VK2SG RTTY DX NOTES FOR WEEK ENDING 17 MAR

This week our information came from AA5AU GU0SUP I5FLN UT5RP and the Central Europe clusternode DB0SPC.
Thank you all.

Friday 11
0004-10142 PT7AZ
0019-18105 9M6BG

0027-10139 HR1RMG
0040-14082 TO7C
0108-24925 9M6BG
0138-21085 XQ1VLY
0306-28080 9M6BG
0658-10142 TO7C
1116-14088 MJ/K3PLV
1153-18101 MJ/K3PLV
1213-21081 MJ/K8PT
1321-14089 TK5IH
1513-21088 VQ9LA
1524-18103 PJ2MI
1532-28081 TO7C
1535-18100 V51LK
1656-14083 OD5/SP5LKN
1844-14081 HR1EPZ
1846-21085 EA6BH
2048-14086 OX3DB
2141-14086 YV1GBA
2319-14081 9M6BG
2348-18107 9M6BG

Saturday 12
0012-18107 9M6BG
0053-14082 S21EA
0057-28080 9M6BG
0114-14086 W5FFK/HR5
0116-14083 JT1CO
0119-24925 9M6BG
0146-21081 9M6BG
0724-21082 5Z4DZ
1006-21080 SU9FL
1008-14082 EA9IB
1058-14081 MJ/K8PT
1124-21082 YB0JIV
1243-18103 TO7C
1258-21083 TO7C
1334-21083 V51LK
1354-21087 VQ9LA
1509-21080 OD5/SP5LKN
1525-18107 MJ/K3PLV
1538-21090 A71EM
1616-21088 CE3CDV
1707-14090 E20KIR
1848-21098 LU8WI
1851-14086 OX3DB
1859-14090 MJ/K3PLV
1920-14083 TO7C
2014-14086 HR1RMG
2032-10142 TO7C
2156-10134 KP4JRS
2306-14081 HC5T
2358-21085 YB5/9V1GO

Sunday 13
0002-21084 YB5/9V1GO
0028-14082 KH6GMP
0105-14087 HR1RMG
0129-14092 5U7B
0214-24924 9M6BG
0226-28081 9M6BG
0312-14081 9M6BG
0734-18107 EA6BH

0908-18107 JT1CO
0919-21084 V51LK
1127-28081 TO7C
1140-24921 TO7C
1329-18102 YB0JIV
1418-18104 PJ2MI
1425-24922 EM1HO
1440-18103 4L1BR
1513-14084 OX3DB
1516-14086 HC5T
1545-18110 SU1SK
1548-21080 V51LK
1555-18107 HK4SAN
1623-14085 E20KIR
1657-18107 VQ9LA
1711-14081 MJ/K8PT
1829-14087 HR1RMG
1841-21084 CE3CDV
1923-21087 9Y4/DC3MAR
1925-21082 TO7C
2044-18102 TO7C
2114-18104 CO8FD
2234-10140 TO7C

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Monday 14
0001-10140 TO7C
0037-14083 JT1CO
0045-14088 CE3CDV
0049-14086 XQ1VLY
0149-18103 9M6BG
0230-21081 9M6BG
0249-24925 9M6BG
0306-28080 9M6BG
0333--7039 TO7C
0957-21080 9M6BG
1036-14080 C38LM
1124-18102 OD5/SP5LKN
1215-24922 TO7C
1244-24924 OD5/SO5LKN
1344-18103 TO7C
1505-28081 TO7C
1621-21081 MJ/K8PT
1643-14083 MJ/K8PT
1645-21085 CE3CDV
1740-14083 EA8/DJ1OJ
1746-14089 VQ9LA
1850-14087 4S7BRG
1929-14082 HR1EPZ
2107-10139 TO7C
cq cq de vk2tty vk2tty

Tuesday 15
0613--7090 HK5MQZ
0655-14088 HK6DOS QSL EA5KB
0800-14081 VK6GOM
1001-21083 JT1CO
1127-21082 TO7C

1134-18112 MJ/K8PT
1137-21081 C38LM
1145-24920 MJ/K8PT
1243-14086 UN5J
1300-24921 TO7C
1326-14087 JT1CO
1717-21082 T07C
1835-14084 C38LM
1841-14085 9Y4/DC3MAR
1916-14091 4S7BRG
1934-14085 PJ2MI
2129-18103 TO7C
2205-14085 XE3ARV
2346--7091 HI3TEJ

Wednesday 16
0026--7091 HI3TEJ
0115-14086 HR1RMG
0626-14082 TO7C
0729-14081 VK4GP
0916-14087 CU3AA
1023-10138 TO7C
1404-21082 TO7C
1514-14083 OX3DB
1536-18101 TO7C
1544-18106 EA6BH
1722-18102 EA8/DL3KVR

Thursday 17
0126-14086 JT1CO
0648--7038 TO7C
0709-14086 CE3CDV
1105-21082 TO7C
1300-14085 VR2MY
1302-28080 TO7C
1348-24925 VQ9LA
1402-21081 TO7C
1445-24921 TO7C
1603-21085 CE3CDV
1700-14083 4S7BRG
1834-14084 OX3HX
2008-14084 GD0TEP
2304-21085 KP4JRS

Notes of Interest

The BARTG Spring RTTY contest runs this weekend from 19 Mar
0200 UTC to Monday 0200 UTC.

The VK2SG RTTY DX NOTES are distributed every week via the
Winlink network, and are also available on the Internet at
URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty
and the digital-dx reflector.

To subscribe to the digital-dx reflector, send an e-mail
message to majordomo at mla.nifty.ne.jp as follows:
Subject:(blank) Message Body: subscribe digital-dx

For next week's bulletin send your bandpass and notes of
interest to Don AA5AU e-mail aa5au at bellsouth.net

Goetz Linss DJ3IW

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The Ohio/Penn DX Bulletin No. 701 --excerpts

8Q, MALDIVES
Operators Igor/UA9CDC Oleg/UA9CDV Vadim/UA9CLB Nick/UN4L and Willy/UN9LW will be active as 8Q7DV this week (Mar 17-29). The team's main goal is to participate during the Russian DX and CQ WPX SSB Contests. However look for them outside of the contests on 160-10 meters on CW/SSB/PSK and possibly RTTY. QSL route was not mentioned.

9H, MALTA (Activities)
Operators Andrea/IK1PMR and YL Claudia/K2LEO will be active as 9H3MR and 9H3LEO respectively from Gozo Island (IOTA EU-023) Mar 17-31. Activity will be on 80-10 meters on all modes using 100 watts with a vertical and wires. Look for 9H3MR to be mainly on CW and 9H3LEO mainly on RTTY. QSL both callsigns via IK1PMR. Also look for activity in the BARTG RTTY and CQ WPX SSB Contests. Skeds are welcome. Please visit the following Web page at: http://www.ik1pmr.com/dx-peditions/9h3mr/
Karl OE3JAG will be active from here possibly as 9H3JAG (or 9H+ACoAKg-) between May 2-6th. Activity will be basically QRP with a dipole or long wire and mainly on CW PSK and RTTY. QSL via his home callsign. See his Web page at: http://www.oe3jag.com

A2, BOTSWANA
Hans/DL7CM and Sid/DM2AYO will be active as A25/homecall from Apr 6-20. They plan to be active with two stations with amps on 160-6 meters CW SSB RTTY and PSK. There will be an emphasis on the lower bands and RTTY. QSL via their home callsigns. Visit their Web page which will also have an online log search available, at http://www.QSL.net/dl7cm/A2.htm

FT5X, KERGUELEN ISLAND (Update)
The only update received this past week (on Mar 9) was from Edwin ZS5BBO which states
The Braveheart departed from Durban today at 17H00 (15H00 GMT) local time. Voyage expected to take 9 to 10 days. Team on board AG9A GI0NWG HB9ASZ M0DXR N6MZ N0TT SP5XVY VE3EJ VK6DXI W3WL W7EW and 9V1YC 73 Edwin ZS5BBO

The Microlite Penguins DXpedition Team is expected to hit the airwave before the end of the week (possibly 18 or 19). Supposedly the callsign will not be announced until the time of the operation.

IOTA ISLAND HOPPING DXPEDITION
Karl N1DL will be visiting a number of Caribbean Islands in Mar (Estimated operating period is between Mar 18-31 approx His first stop will be the Dominican Republic (HI7) IOTA NA-096. He will be active as N1DL/HI7 and will try to cover most modes - like CW SSB PSK and RTTY. Bands will be as conditions permit. Karl will favor the IOTA frequencies and check in daily to the YL ISSB System on 14332 KHz for messages. Look for him to also activate the following:
Antigua Callsign V25DL, NA-100
St Kitts Callsign N1DL/V44, NA-104

British Virgin Island Callsign VP2V/N1DL, NA-106
Dominica Callsign J79DL, NA-101
St. Barths Callsign FJ/N1DL, NA-146
St. Lucia Callsign J6AKgAq-, NA-108

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IOTA NEWS

EU-171. Michael/DJ4MG and his YL Ela/DL1TM will be active as OZ/homecall from Vendsyssel-Thy between Mar 27 and Apr 14. Their activity will be on 160/80/40/20/15 meters SSB and on 40/20 meters on PSK31. QSL via the bureau to their home callsign.

OC-194. (Postpone Again) Bill VK4FW reports We have run into a problem. The IOTA HQ has informed me that as far as they can ascertain Little Solitary does not seem to count (they can't find it on their maps) and I have insufficent time to firstly make sure it does or to mAke the necessary permit changes required to go to others that do count for OC-194.. I have no choice at this late stage but to again postpone this until I can get permissions necessary to go onto one of the other islands that will count. Meanwhile, as I have organized for the time to spend on this operation I may go to another IOTA area.. possibly OC-137 or OC-142. I will confirm that in a day or so if I can get transportation to one of them.

TT8, CHAD (Update)
Ghis ON5NT in A6-land informs OPDX that Michael/PA5M and Pierre/HB9AMO arrived in N'Djamena this past week. They both already have their licenses in hand. Michael is TT8M and Pierre is TT8AMO. Both operators have moved to the eastern part of the country and will be there for approx. 2 months for work (early May), so activity will be on all bands from 160-6 meters mainly during their evening hours and only during their spare time. QSL both TT8M and TT8AMO via PA7FM. Please keep in mind 1 USD does not cover postage outside Europe anymore. Request without enough return postage or SAE will be answered by the Bureau. Their QSL Manager Dennis PA7FM also informs OPDX that the operators have operated on 160 meters but due to limited space for antennas they had to take the 160m atenna down again. Maybe there will be some more activity on that band later. Look for TT8AMO to operate only CW while TT8M will do SSB and some digital modes later. Logs for both will be available on: http://www.pa7fm.nl

VK9C, COCOS-KEELING ISLAND
Charlie W0YG will be here from Nov 7-21. He will be active as VK9CG and will probably cease operations on Nov 20 so he can pack-up and take some of the antennas down. Charlie states I will leave some antennas up for VK2IA who will be operating as VK9AA starting the day I depart. Look for Charlie to be mostly on the lower bands 160 and 80 meters but he will also do some HF RTTY and CW. All QSLs go to W0YG please direct only.

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The Society can be contacted in the following ways
To Pat VK2JPA via vk2jpa at wia.org.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN